

FERENCE & ASSOCIATES
Information Disclosure Statement

Atty. Docket No. YO-999-594

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s).

Washington, D.C. 20231

Kun-Lung WU et al

Group Art: not yet assigned

Serial No.

not yet assigned

Examiner: not yet assigned

Filed

herewith

HON. ASSISANT COMMISSIONER FOR PATENTS

For

Arrangements and Methods for Latency-Sensitive Hashing for

Collaborative Web Caching

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MAY 0 6 2004

Technology Center 2100

Sir:

This Information Disclosure Statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98. The items listed on Form PTO-1449, a copy of which is enclosed, may be deemed to be pertinent to the above-identified application and are made of record to assist the Patent and Trademark Office in its examination of this application. The submission of this Information Disclosure Statement shall not be construed as a representation that a search has been made or that no other items than those identified herein exist. The Examiner is respectfully requested to fully consider the items and to independently ascertain their teaching.

1.	[]	For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English	sh
		language, an English language translation of that item or a portion thereof or a concise explanation of	the
		relevance of that item is enclosed:	_

A:

B:

- 2. [] For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, a concise explanation of the relevance of that item is incorporated in the specification of the above-identified application.
- Any copy of the items listed on the enclosed copy of Form PTO-1449 that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in the prior [] Continuation, [] Divisional or [] Continuation-In-Part application under 37 C.F.R. § 1.60, U.S. Serial No. _______, filed ______.

- 4. [X] No fee is due under 37 C.F.R. § 1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:
 - [X] 37 C.F.R. § 1.97(b)(1), within three months of the filing date of the above-identified application.
 - [] 37 C.F.R. § 1.97(b)(2), within three months of the date of entry into the national stage as set forth in § 1.491 in an international application.
 - [] 37 C.F.R. § 1.97(b)(3), before the mailing date of a first Office action on the merits.
- 5. [] No fee is due under 37 C.F.R. § 1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. § 1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a Notice of Allowance (where there has been no prior final action), and is accompanied by one of the verifications pursuant to 37 C.F.R. § 1.97(e) set forth in paragraph 9 below.
- 6. [] A fee is due under 37 C.F.R. § 1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. § 1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a notice of allowance (where there has been no prior final action):
 - [] A check in the amount of \$240.00 is enclosed in payment of the fee.
- 7. [] A fee is due under 37 C.F.R. § 1.17(i) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. § 1.97(d), after the mailing date of a final action or a notice of allowance, whichever comes first, but before payment of the issue fee, and is accompanied by:
 - a. one of the certifications pursuant to 37 C.F.R. § 1.97(e) set forth in paragraph 9 below; and
 - b. the attached petition requesting consideration of this Information Disclosure Statement; and
 - c. the fee due under 37 C.F.R. § 1.17(i) which is paid as set forth in paragraph 10 below.
- 8. [] A fee is due under 37 C.F.R. § 1.17(i) for this Information Disclosure Statement since it is being filed in compliance with:
 - a. [] 37 C.F.R. §1.313(b)(3), after the issue fee has been paid and information cited in this Information Disclosure Statement may render at least one claim unpatentable and is accompanied by the attached Petition To Withdraw Application From Issue.
 - b. [] 37 C.F.R. § 1.313(b)(5), after the issue fee has been paid and information cited in this Information Disclosure Statement is to be considered in a Continuation application upon abandonment of the instant application and is accompanied by the attached Petition To Withdraw Application From Issue.
 - c. [] The fee due under 37 C.F.R. § 1.17(i) is paid as set forth in paragraph 10 below.

FERENCE & ASSOCIATES Information Disclosure Statement

Atty. Docket No. YO-999-594

- 9. [] I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
 - [] I hereby certify that no item of information in the Information Disclosure Statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
- 10. [] A check in the amount of \$130.00 is enclosed in payment of the fee due under 37 C.F.R. § 1.17(i).

Respectfully submitted,

FERENCE & ASSOCIATES

Dated: 28 January 2000

Stanley D. Ference III Registration No. 33,879

Mailing Address:

FERENCE & ASSOCIATES 129 Oakhurst Road Pittsburgh, Pennsylvania 15215 (412) 781-7386 (412) 781-8390 - Facsimile

Atty. Docket No. YO-999-594 (590.004)

FERENCE & ASSOCIATES Supplemental Information Disclosure Statement

Applicant(s)

compliance with:

: Kun-Lung Wu et al.

<u>IN THE UNITED STATES PATENT AND TRADEMARK OFFICE</u>

Group Art: 2152

Ser File For		Examiner: not yet assigned : January 28, 2000 : ARRANGEMENTS AND METHODS FOR LATENCY-SENSITIVE HASHING FOR COLLABORATIVE WEB CACHING
		ASSISTANT COMMISSIONER FOR PATENTS gton, D.C. 20231
Sir:		
Thi	s Inf	formation Disclosure Statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98. The items listed
on l	Form	n PTO-1449, a copy of which is enclosed, may be deemed to be pertinent to the above-identified application
and	are	made of record to assist the Patent and Trademark Office in its examination of this application. The
sub	miss	tion of this Information Disclosure Statement shall not be construed as a representation that a search has been
mac	le or	that no other items than those identified herein exist. The Examiner is respectfully requested to fully
con	sider	r the items and to independently ascertain their teaching.
1.	[]	For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, an English language translation of that item or a portion thereof or a concise explanation of the relevance of that item is enclosed:
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2.	[]	For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, a concise explanation of the relevance of that item is incorporated in the specification of the above-identified application.
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	[] 37 C.F.R. § 1.97(b)(1), within three months of the filing date of the above-identified application.							
	[] 37 C.F.R. § 1.97(b)(2), within three months of the date of entry into the national stage as set forth in § 1.491 in an international application.							
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	[] A check in the amount of \$180.00 is enclosed in payment of the fee.							
	[] Please charge IBM Corporation Deposit Account No. 50-0510 the amount of \$180.00, to cover the fee. In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or credit Deposit Account No. 50-0510 as required to correct the error.							
7. []	A fee is due under 37 C.F.R. § 1.17(i) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. § 1.97(d), after the mailing date of a final action or a notice of allowance, whichever comes first, but before payment of the issue fee, and is accompanied by:							
	a. one of the certifications pursuant to 37 C.F.R. § 1.97(e) set forth in paragraph 9 below; and							
	b. the attached petition requesting consideration of this Information Disclosure Statement; and							
	c. the fee due under 37 C.F.R. § 1.17(i) which is paid as set forth in paragraph 10 below.							
8. []	A fee is due under 37 C.F.R. § 1.17(i) for this Information Disclosure Statement since it is being filed in compliance with:							
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Page 2 of 3

FERENCE & ASSOCIATES Supplemental Information Disclosure Statement

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- 10. [] A check in the amount of \$130.00 is enclosed in payment of the fee due under 37 C.F.R. § 1.17(i).

Respectfully submitted,

FERENCE & ASSOCIATES

Dated: 30 May 2002

Stanley D. Ference III
Registration No. 33,879

Mailing Address:

FERENCE & ASSOCIATES 129 Oakhurst Road Pittsburgh, Pennsylvania 15215 (412) 781-7386 (412) 781-8390 - Facsimile

CERTIFICATE OF MAILING

I hereby certify that this correspondence and any documents referred to as enclosed therewith are being deposited with the United States Postal Service as first class mail, addressed to the

Assistant Commissioner for Patents, Washington, DC 20231 on 30 May 2002.

Stanley D. Ference III Reg No. 33.879 30 May 2002 Date of Signature The stamp of the U.S.
Patent and Trademark
Office Mailroom
hereon acknowledges
the receipt of the
identified papers on
the date indicated by
such stamp.

Application Serial No. 09/493,904 for ARRANGEMENTS AND METHODS FOR LATENCY-SENSITIVE HASHING FOR COLLABORATIVE WEB CACHING

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT, including PTO Form 1449 and two copies of references cited thereon



May 30, 2002 YO-999-594 (590.004)

PTO/SB/08B (10-96) APR 3 0 2004 Patent and Tradem Office: U.S. DEPARTMENT OF COMMERCE Ap. d for use through 10/31/99. OMB 0651-0031 Patent and Tradem Office: U.S. DEPARTMENT OF COMMERCE ander the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.								
Substitute for form 1449B/PTO	8	mplet if Known						
INFORMATION PIGGL COURT	Application Number	Unassigned						
INFORMATION DISCLOSURE	Filing Date	Herewith						
STATEMENT BY APPLICANT	First Named Inventor	Kun-Lung WU et al.						
	Group Art Unit	Unassigned						

Examiner Name

Attorney Docket Number

Unassigned YO-999-594

(use as many sheets as necessary)

of

Sheet

	•	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	А	V. VALLOPPILLIL and K.W. ROSS, "Cache Array Routing Protocol, v 1.0", Feb. 1998, Internet Draft, http://irache.net/Cahce/ICP/carp.txt	
	В	K.W. ROSS, "Hash-Routing for Collections of Shared Web Caches", IEEE Network Magazine, NovDec. 1997, pp. 37-44	
	С	D. KARGER et al., "Web Caching with Consistent Hashing", Proc. of 8th International World Wide Web Confernece, 1999, pp, 125-135	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box

PTO/SB/08A (10-96)
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
as are required to respond to a collection of information unless it contains a valid OMB control number.

Substitu	ute for form 1449A	/PTO		Complete if Known			
				Applicati n Number	09/493,904		
INF	ORMATIO	N DIS	CLOSURE	Filing Date	January 28, 2000		
STA	TEMENT	BY A	PPLICANT	First Named Inventor	Kun-Lung Wu et al.		
				Group Art Unit	2152		
	(use as many s	sheets as i	necessary)	Examiner Name	Unassigned		
Sheet	1	.of	1	Attorney Docket Number	YO-999-594		

	U.S. PATENT DOCUMENTS								
	011-	U.S. Paten	t Document	Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant			
Examiner Initials	Cite No. ¹	Number	Kind Code ² (if known)	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear			
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Examiner	,	Date	
Signature		Considered	

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.